

Schneider Series Service Manual

140CPS11100C

1. Description

The 140CPS11100C is a power supply module from Schneider Electric's Modicon Quantum series. This unit is designed to operate with an input voltage range of 120 to 230 V AC and provides a stable output of 5.1 V DC.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type Power Supply Module
Product	Line Modicon Quantum
Part	Number 140CPS11100C
Input	Voltage 120-230 V AC
Harmonic	Distortion ≤10%
Rated	Power 50 VA
Input	Current 400 mA @ 115 V / 200 mA @ 230 V
Input	Range 100-276 V AC
Inrush	Current 20 A @ 115 V / 10 A @ 230 V
Fuse	Rating 1.5 A slow-blow
Power	Dissipation 2 + (3 × Iout) W
Output	Current 3A
Overload	Protection Internal
Frequency	47-63 Hz
Output	Voltage 5.1 V DC
Overvoltage	Protection Internal
LED	Indicator 1 green (PWR OK)

3. Product Information

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Technical specifications for 140CPS11100C

Manufacturer Schneider Electric

Product Type Power Supply Module

Product Line Modicon Quantum

Part Number 140CPS11100C

Input Voltage 120-230 V AC

Harmonic Distortion ≤10%

Rated Power 50 VA

Input Current 400 mA @ 115 V / 200 mA @ 230 V

Input Range 100-276 V AC

Inrush Current 20 A @ 115 V / 10 A @ 230 V

Fuse Rating 1.5 A slow-blow

Power Dissipation 2 + (3 × Iout) W

Output Current 3A

Overload Protection Internal

Frequency 47-63 Hz

Output Voltage 5.1 V DC

Overvoltage Protection Internal

LED Indicator 1 green (PWR OK)

Description

Schneider Electric's power supply module, designated as part number 140CPS11100C, is tailored for high-performance applications within the Modicon Quantum series. It accepts an input voltage ranging from 120 to 230 V AC and demonstrates a broad input range of 100 to 276 V AC. The device exhibits low harmonic distortion, capped at 10%, which contributes to efficient operation. Its rated power stands at 50 VA, accommodating various loads effectively.

When examining input current, this module draws 400 mA at 115 V and 200 mA at 230 V. An inrush current capacity of 20 A at 115 V and 10 A at 230 V allows for reliable initialization without damaging connected equipment. The power dissipation, calculated as 2 plus three times the output current (Iout), ensures effective thermal management of the module during operation.

The unit offers an output current capacity of 3 A, making it suitable for various controlled environments. With features such as internal overload protection and frequency support between 47 to 63 Hz, the power supply is robust against fault conditions. Overvoltage protection also resides internally, enhancing overall safety. A single green LED indicator serves as a power status signal, confirming the module's operational readiness with a 'PWR OK' indication. This compact and efficient power supply module is designed to meet the demands of modern industrial control systems.